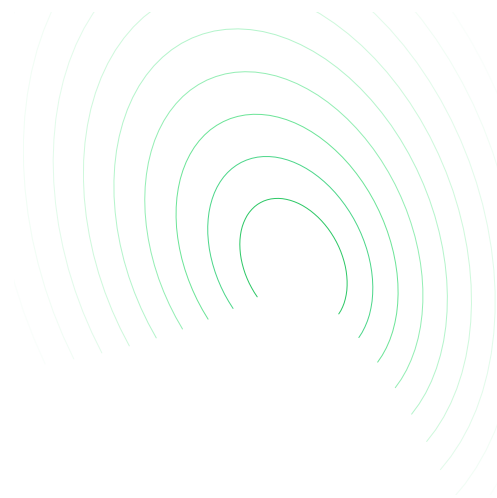




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Word count: 4,304

Template release: 0.0.75

Repo: <https://github.com/buckwem/prodockit-template>

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1. Originality & AI Use

Warning

- Coursework will be routinely checked for academic misconduct.
- Copying might constitute plagiarism.
- TurnItIn will check all submissions for instances of copying and collusion.
- Your submission must be in your own words. Where you have quoted text from another source this must be clearly indicated and referenced.
- Complete the statement on AI Use to show how you use AI to enhance your work.
- Please read the Student Handbook to ensure you know what this means!

1.1 Statement of originality

I confirm that the submitted work is my own work. No element has been previously submitted for assessment, or where it has, it has been correctly referenced. **I have clearly identified and fully acknowledged all material that should be attributed to others** (whether published or unpublished, and **including any content generated by a deep learning/artificial intelligence tool**, and have also included their source references where relevant) using the referencing system required by my course or in this specific assignment.

I agree that the University may submit my work to means of checking this, such as the plagiarism detection service Turnitin® UK and the Turnitin® Authorship Investigate service. I confirm that I understand that assessed work that has been shown to have been plagiarised will be penalised.

1.2 Statement on AI use

Note

Complete a statement on how you used AI including what you didn't use AI for. Below is an example of the detail required. You should include the tool used, how it was used, the prompts you used and a justification for its use. You should also include a statement on what you didn't use AI for.

Table 1.1. Statement on AI use example

Tool Used	Explain How Used	List Prompts	Justify Use
ChatGPT 5.5	Used to generate a list of actors for the system context diagram.	1. List actors for interfaces to an internet store. 2. Add those business and IT actors that support the application, infrastructure and cybersecurity. 3. Add the following list of actors: actor1, actor2, actor3.	Used to identify a comprehensive list of actors and reduce the risk of missing actors.
ChatGPT 5.5	Identify a typical interface for a payment system.	1. What sort of protocol and technology for the interface to the Visa payments system.	Used to identify the payment gateway system actor interfaces to a system.
ChatGPT 5.5	Improve explanations in the coursework.	1. Improve the following description to make clearer in no more than two sentences: <paragraph>	Used to make the discussion clearer.

2. Executive Summary

This template is used for teaching architecture concepts and best practices in a structured manner using the book [Security Architecture for Hybrid Cloud](#). Content is included in the template to show some of the different capabilities of [prodockit](#). Have a look to see how to use capabilities like captions, cross-references, landscape pages, and more.

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The architecture overview for Lorem ipsum below in [Figure 2.1](#) shows the high-level structure and interactions of the system components.



Figure 2.1. Architecture overview for Lorem ipsum

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3. Requirements

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3.1 System context

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Figure 3.1. System context for Lorem ipsum

Table 3.1. Description of system context actors

Actor	Description
Client	A client looking for dolor sit amet advice.

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labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

3.2 Data Classification

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Insert data classification table here.

3.3 Information Asset Inventory

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Insert information asset inventory table here.

3.4 Functional Requirements

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Insert functional requirements table here.

3.5 Non-Functional Requirements

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Insert non-functional requirements table here.

3.6 Swimlane Diagram

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Insert swimlane diagram here.

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Insert activity list here.

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Insert separation of duties table here.

4. Solution architecture

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4.1 Component Architecture

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The architecture overview for Lorem ipsum below in [Figure 4.1](#) shows you ... fill in the details.



1500 × 800

Figure 4.1. Component Architecture Diagram for Lorem ipsum

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Insert other relevant supporting tables here.

4.2 Threat-Risk Register

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Table 4.1. Threat-Risk Register for Lorem ipsum

Threat Target	Attack Technique	Threat Agent	Risk evaluation				Risk Mitigation			Residual Risk			
			Likeli-hood	Tech. Impact	Bus. Impact	Overall Risk	Preventive	Detective	Corrective	Likeli-hood	Tech. Impact	Bus. Impact	Overall Risk
Investment Data	Privileged access to highly confidential investment data	Internal IT Staff	H	L	H	H	Encryption of sensitive data fields in database	Detect access from unauthorised application Detect changes in permissions Detect large data download	Automated block on access from threat agent	L	H	H	VL

4.3 Deployment/Cloud Architecture

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Insert deployment/cloud architecture diagram here.

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Insert other relevant supporting tables here.

5. Governance

5.1 Viability Assessment (RAID)

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Insert RAID assessment table here.

5.2 Architecture Decision

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Table 5.1. Architectural decision for sourcing security services

Subject Area	Lorem ipsum dolor sit amet		
Topic	Security	AD ID	AD_SEC_001
Architectural Decision	Lorem ipsum dolor sit amet, consectetur adipiscing elit		
Problem Statement	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.		
Assumptions	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.		
Motivation	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.		

Subject Area	Lorem ipsum dolor sit amet		
Topic	Security	AD ID	AD_SEC_001
Alternatives Option 1	Description:	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.	
	Advantages:	1. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. 2. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.	
	Disadvantages:	1. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. 2. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.	
	Expected effort/cost:	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.	
Option 2	Description:	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.	
	Advantages:	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.	
	Disadvantages:	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.	
	Expected effort/cost:	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.	
Decision	Option 2		

Subject Area	Lorem ipsum dolor sit amet		
Topic	Security	AD ID	AD_SEC_001
Justification	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.		
Implications	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.		
Derived Requirements	1. Lorem ipsum dolor sit amet, 2. consectetur adipiscing elit		
Related Decisions	None		

6. Operations

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6.1 Service Description

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6.2 Service RACI

See SAHC Shared Responsibilities page 369-364

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Insert RACI Matrix here.

6.3 Service Processes

See SAHC Defining Processes, Procedures and Work Instructions page 365-375

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6.3.1 Process Statecharts

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laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Insert Statechart diagrams here

See SAHC Process Definition page 367

6.3.2 Process Swimlanes

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Insert Level 1 Process/Swimlane diagram here.

See SAHC Process Definition page 368

Insert Level 2 Process/Swimlane diagram here.

See SAHC Process Definition page 369-372

6.4 Separation of Duties

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Insert Separation of Duties matrix here.

See SAHC Process Definition page 373

6.5 Service KPIs

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Insert KPI table here.

6.6 Threat Detection and Response

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6.6.1 Threat Detection Use Case Process

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Insert Threat Detection Use Case Process table here.

See SAHC Threat Detection Use Case page 378-384

6.6.2 Incident Response Runbooks

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Insert Incident Response Runbooks here.

See SAHC Incident Response Runbook page 384-390

6.6.3 Threat Traceability

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Insert Threat Traceability Matrix table here.

See SAHC Threat Traceability Matrix page 391-392

7. Section

7.1 SubSection

Git is a tool used to manage version control in software development with many developers making changes at the same time.[\(Skoulikari, 2023\)](#) A more detailed introduction is also available.[\(Chacon and Straub, 2014\)](#)

Above is an example of using references in a document. Each citation is linked to its own entry on the References page, which lists only the sources actually cited here - automatically generated from references.bib.

7.2 SubSection

This template uses [CSS](#) to control the appearance of both the website and the PDF.

Above is an example of using acronyms in a document. The acronym is linked to the acronyms section of the document, which is automatically generated from the acronyms.md file.

7.3 SubSection

This document is written in [Markdown\(Python-Markdown, 2023\)](#), then converted into the website and PDF you're reading.

Above is an example of using a glossary in a document. The term is linked to the glossary section of the document, which is automatically generated from the glossary.md file.

7.4 SubSection

Sections can be cross-referenced with `\ref{id}` - see [7.5 SubSection](#) below, which stays correct even if you reorder or add content.

Where the reader may be holding a printout, use `\autoref{id}` instead - see [7.5 SubSection on page 23](#), which renders the same text and adds the target's page number in the PDF.

Both render the target's current number and name, so unlike a hand-typed section number they update themselves if the target moves - and `\autoref{id}` gives a printed reader somewhere to turn to, which a section number alone does not.

7.5 SubSection



Figure 7.1. This template's own default logo, used throughout its branding - swap it for your own (see "Institution branding" in the User Guide's customise.md).

Above is an example of a captioned figure. The caption is automatically numbered and prefixed with the current chapter number, in both the website and the PDF.

7.6 SubSection

Table 7.1. prodockit capabilities demonstrated in this document

Capability	Syntax	Where
Citations	<code>\cite{id}</code>	this section
Acronyms	<code>\gls{id}</code>	this section
Glossary	<code>\gls{id}</code>	this section
Cross-references	<code>\ref{id}</code>	this section
Figure captions	<code>/// figure-caption</code>	this section
Table captions	<code>/// table-caption</code>	this table
Cell shading	<code>shade="8%"</code> or <code>shade="off"</code>	this table
Diagrams	<code>```mermaid fence</code>	this section

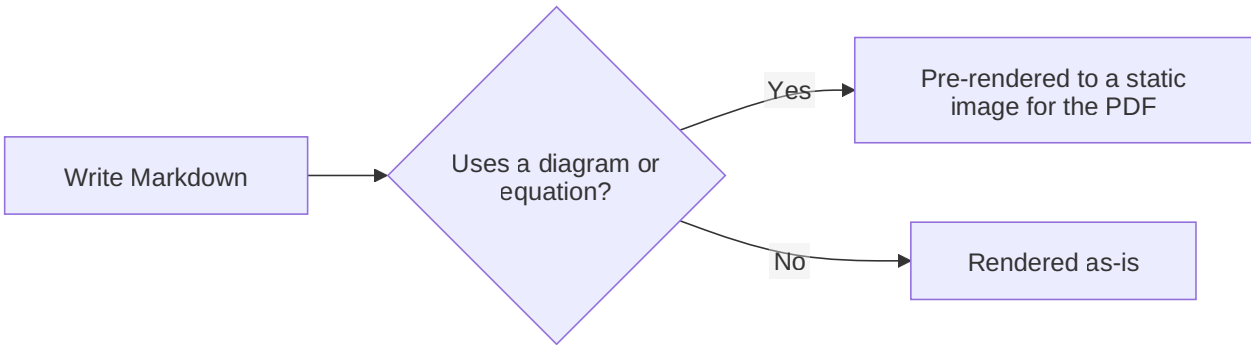
Capability	Syntax	Where
Maths	<code>\$\$... \$\$</code>	this section
Directory trees	<code>/// tree</code>	this section
Numbered steps	<code>/// steps</code>	this section

Above is an example of a captioned table. Like a figure caption, it's automatically numbered and prefixed with the current chapter number.

7.6.1 SubSubSection

7.6.2 SubSubSection

7.7 SubSection



Above is an example of a Mermaid diagram, defined with a ````mermaid` fenced code block. The website renders it client-side via Mermaid.js; since WeasyPrint has no JS engine, the PDF instead pre-renders it to a static image with ProDocket's Python renderer - both use the exact same source, with no changes needed between the two.

7.8 SubSection

$$\cos x = \sum_{k=0}^{\infty} \frac{(-1)^k}{(2k)!} x^{2k}$$

Above is an example of a TeX equation, written with the same `$$ ... $$` syntax as Zensical's own MathJax support. The PDF pre-renders it to a static image with the separate MathJax tooling, rather than showing the raw LaTeX source.

7.9 SubSection

```
└─ docs — everything that becomes a page and a PDF section
   └─ index.md — the cover page
   └─ section1.md — the first section
   └─ assets — images, logos and anything else the document embeds
       └─ diagram.png
└─ references.bib — the sources \cite{} resolves against
```

Above is an example of a directory tree. Indentation is the structure and a trailing `/` marks a directory, so it stays readable as plain text and survives a rename - unlike a hand-aligned block of box-drawing characters, which has to be redrawn every time a name changes.

7.10 SubSection

1. Write your Markdown

Anything in `docs/` becomes a page of the website and a section of the PDF.

2. Build it

```
zensical build
```

3. Read what you wrote

Above is an example of numbered steps: a number to find your place by, room for a command and its explanation, and a line joining one step to the next. Useful anywhere a method has to be repeatable by somebody else.

7.11 SubSection

```
git clone https://gitlab.com/your-group/your-project
cd your-project
python -m venv .venv
source .venv/bin/activate
pip install -r requirements.txt
```

Above is an example of a code listing, written as a ````bash` fenced code block. Unlike the diagram and the equation, nothing pre-renders it - the same text reaches both outputs directly. It is here so that both the website and the PDF are exercised on a *multi-line* listing: a code block that loses its preformatting reflows into a paragraph, and a single line has no line breaks to lose (prodockit-extensions#207).

7.11.1 SubSubSection

7.12 SubSection

7.12.1 SubSubSection

Appendix A. Acronyms

The following acronyms and abbreviations are used throughout this document.

CI/CD - Continuous Integration/Continuous Deployment. See the [glossary](#) for what this means in practice.

CSS - Cascading Style Sheets. See the [glossary](#) for what this means in practice.

DCO - Developer Certificate of Origin

GUI - Graphical User Interface

HTML - HyperText Markup Language

PAT - Personal Access Token. See the [glossary](#) for what this means in practice.

PDF - Portable Document Format. See the [glossary](#) for what this means in practice.

SSH - Secure Shell. See the [glossary](#) for what this means in practice.

TOML - Tom's Obvious, Minimal Language

URL - Uniform Resource Locator

Appendix B. Glossary

The following key terms are used throughout this document.

CI/CD - The practice of automatically building, testing, and publishing a project every time a change is pushed, rather than as a separate manual step. See the [Acronyms](#) entry for the expansion.

Cascading Style Sheets - The language used to control the visual appearance (colours, spacing, fonts, layout) of a web page, kept separate from its content. See the [Acronyms](#) entry for the expansion.

Personal access token - A long, randomly generated code that acts as a substitute for a password, scoped to a single purpose and revocable at any time without changing your main account credentials. See the [Acronyms](#) entry for the expansion.

Portable Document Format - A fixed-layout document format that looks the same regardless of the software, hardware, or operating system used to open it. See the [Acronyms](#) entry for the expansion.

Secure Shell - An encrypted network protocol used to authenticate with, and send commands to, a remote computer - most commonly used here to connect securely to GitLab or GitHub without typing a password each time. See the [Acronyms](#) entry for the expansion.

Fenced code block - A block of code set apart from the surrounding text by a line of three or more backticks before and after it, optionally labelled with a language name for syntax highlighting.

Markdown - A lightweight markup language for formatting plain text, using a simple, readable syntax that converts into HTML for web publishing.

Repository - The complete collection of a project's files and their full history of changes, tracked by Git and stored on a service such as GitLab or GitHub.

Static site generator - A tool that converts a set of source files (such as Markdown) into a complete website of plain HTML pages ahead of time, rather than generating each page on demand when a visitor requests it.

Version control - A system for recording changes to a set of files over time, so you can review the history, compare versions, and revert to an earlier one if needed.

Appendix C. References

The following sources are cited directly in this document.

Chacon, S. and Straub, B. (2014) *Pro git*. 2nd ed. New York: Apress. Available at: <https://git-scm.com/book> (Accessed: July 11, 2026).

Python-Markdown (2023) "Python-markdown documentation." Available at: <https://python-markdown.github.io/> (Accessed: July 11, 2026).

Skoulikari, A. (2023) *Learning git: A hands-on and visual guide to the basics of git*. Sebastopol, CA: O'Reilly Media.

Appendix D. Bibliography

The following sources provide additional context, research, and further reading beyond what's directly cited in this document.

Markdown Guide (no date) "Markdown guide." Available at: <https://www.markdownguide.org/> (Accessed: July 11, 2026).

MathJax (no date) "MathJax documentation." Available at: <https://www.mathjax.org/> (Accessed: July 11, 2026).

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